# TENT COOPERATION TREATY

#### From the INTERNATIONAL BUREAU

### **PCT**

#### **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

Tom the inventorial Bond

United States Patent and Trademark Office (Box PCT) Crystal Plaza 2 Washington, DC 20231 ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day/month/year)
03 May 1999 (03.05.99)

International application No.
PCT/AU98/00817

International filing date (day/month/year)
29 September 1998 (29.09.98)

Applicant

CROFTS, Linda, Anne et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	19 April 1999 (19.04.99)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

**Authorized officer** 

S. Mafla

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

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INTERNATIONAL PRELIMINARY EXAMINATION RETWIRD

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 91917	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).			
International application No.	International filing date (day/month/year)		Priority Date (day/month/year)		
PCT/AU 98/00817	29 September 1998		29 September 1997		
International Patent Classification (IPC)	or national classificat	tion and IPC			
Int. Cl. 6 C12N 15/2; C07K14/72; A	01K 67/00				
Applicant GARVAN INSTITUTE OF MEDICAL RESEARCH					
			<u></u>		
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>					
2. This REPORT consists of a to	tal of 4 sheets, incl	uding this cover sheet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a tot	al of 0 sheet(s).				
3. This report contains indications relat	ting to the following it	ems:			
I X Basis of the repo	rt				
II Priority					
III Non-establishme	nt of opinion with rega	ard to novelty, inventive	step and industrial applicability		
IV Lack of unity of i	invention				
1 1 - 1					
VI Certain documen					
VII Certain defects in	VII Certain defects in the international application				
VIII X Certain observations on the international application					
Date of submission of the demand 23 APRIL 1999		Date of completion of the report 26 JULY 1999			
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200 WODEN ACT 2606 AUSTRALIA		Authorized Officer  GILLIAN ALLEN			

Telephone No. (02) 6283 2266

Facsimile No. (02) 6285 3929

	rnational application No.
PO	CT/AU 98/00817

I.	Basis of the report
1.	With regard to the elements of the international application:*
	X the international application as originally filed.
	the description, pages, as originally filed,
]	pages, filed with the demand,
	pages , filed with the letter of .
	the claims, pages, as originally filed,
	pages, as amended (together with any statement) under Article 19,
	pages, filed with the demand,
	pages, filed with the letter of.
	the drawings, pages, as originally filed,
	pages, filed with the demand,
	pages, filed with the letter of.
	the sequence listing part of the description:
	pages , as originally filed
	pages , filed with the demand
	pages , filed with the letter of
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  These elements were available or furnished to this Authority in the following language which is:
	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, was on the basis of the sequence listing:
	contained in the international application in written form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	X furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
4.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/fig
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
*	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).  Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement
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Novelty (N)	Claims Claims	1-25	YES NO
Inventive step (IS)	Claims Claims	1-25	YES NO
Industrial applicability (IA)	Claims Claims	1-25	YES NO

2. Citations and explanations (Rule 70.7)

#### Citations

D1. Miyamoto et al. Mol Endocrinology. 1997. 11(8): 1165-1179.

# Novelty and Inventive Step.

The closest prior art is that of Miyamoto et al which discloses the presence and sequence of three exons, 1a, 1b and 1c at the 5' end of the human vitamin D receptor, and different isoforms of the receptor produced by differential splicing involving these involving these exons. However the citation does not suggest or disclose the presence or DNA sequence of the 1d, 1e or 1f exons of the present application.

Therefore all claims are considered novel and inventive

## Industrial applicability

All claims are considered industrially applicable.

### VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The claims are to any polynucleotide encoding any vitamin D receptor comprising one or more of the novel exons 1d, le or 1f. However the description only discloses vitamin D receptors comprising the novel exons in combination with other known Vitamin D exons. It is not considered that the description supports claims which encompass vitamin D receptor polynucleotides comprising presently unknown exons or other DNA sequences.